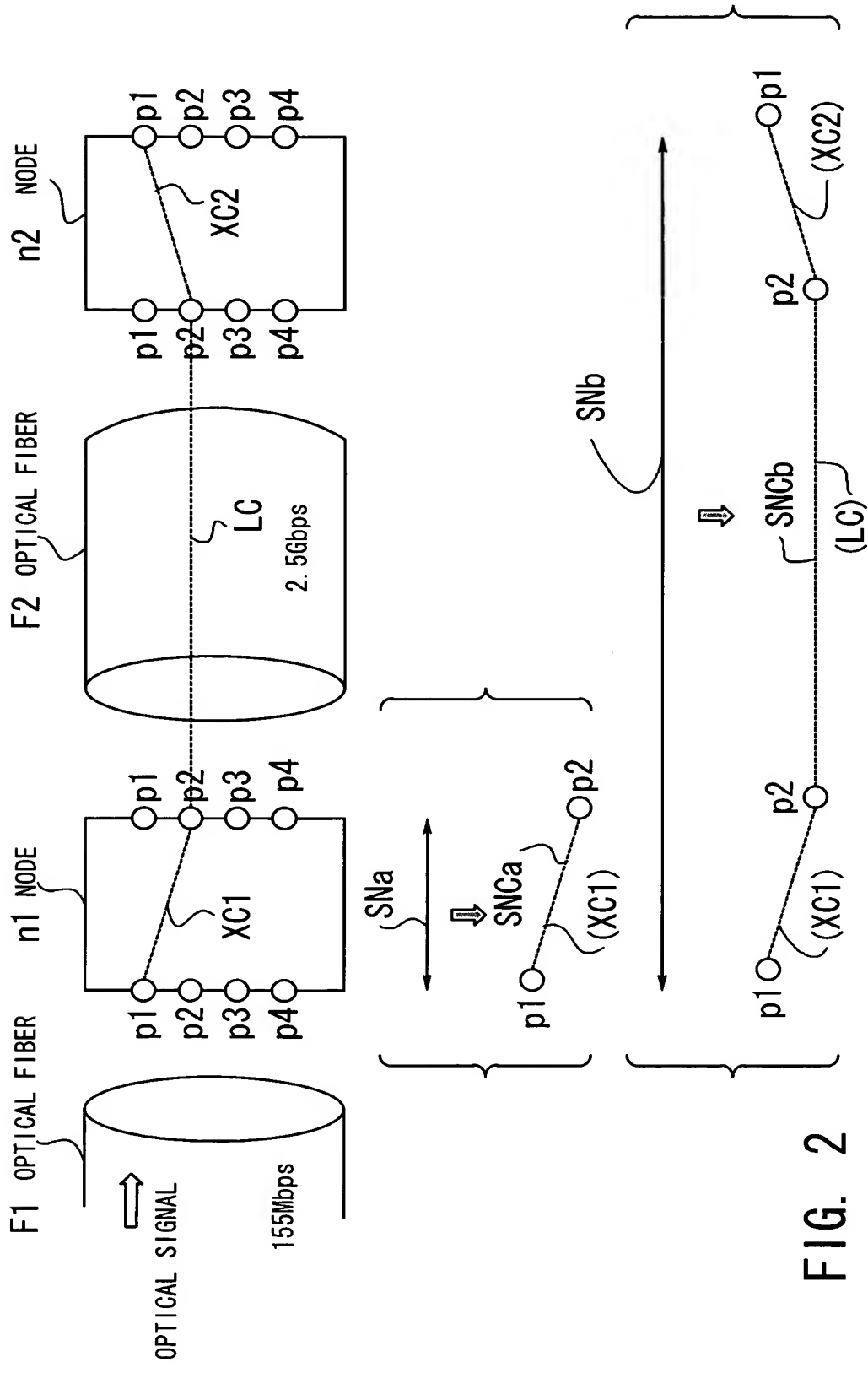


FIG. 1



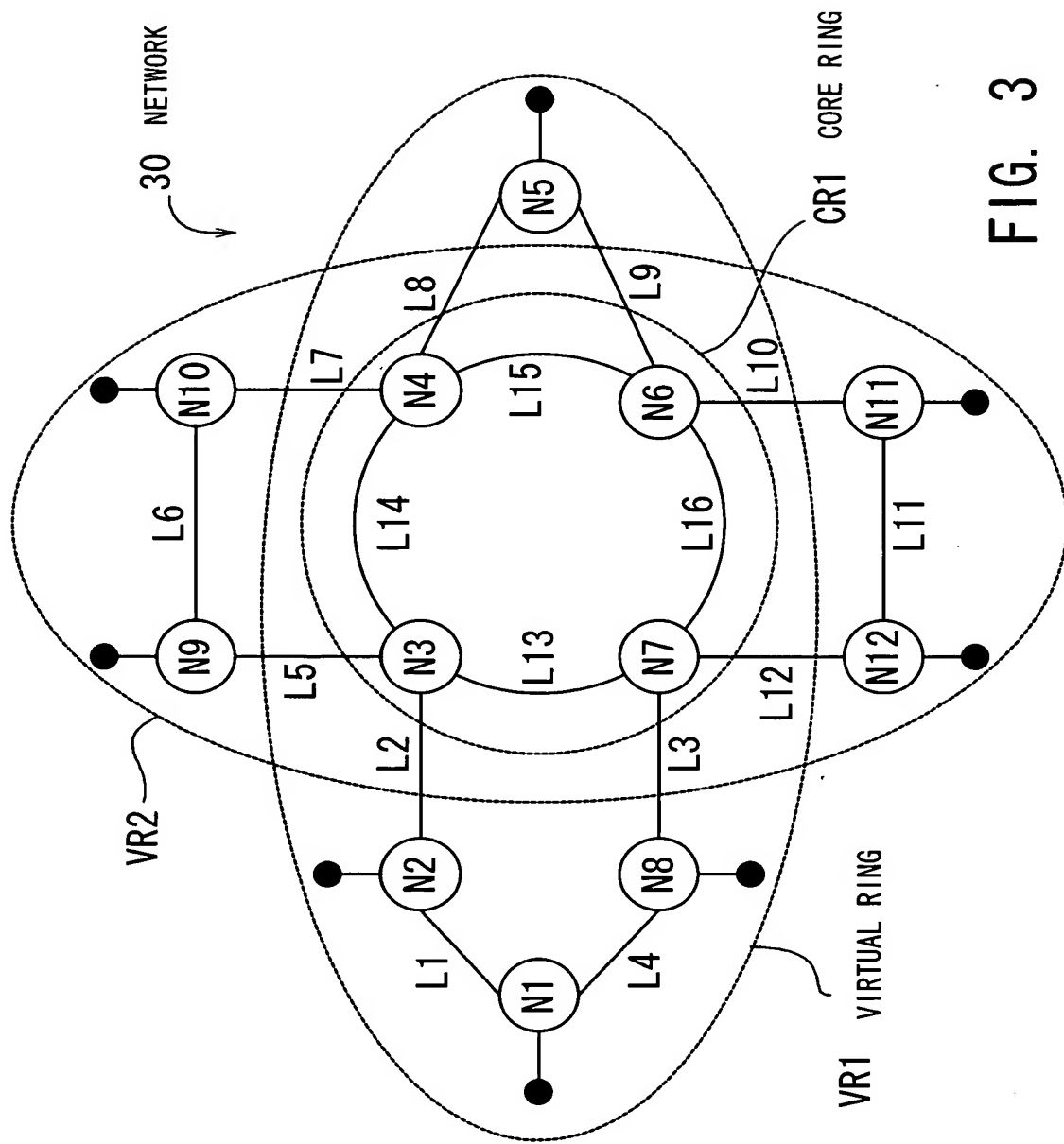


FIG. 3

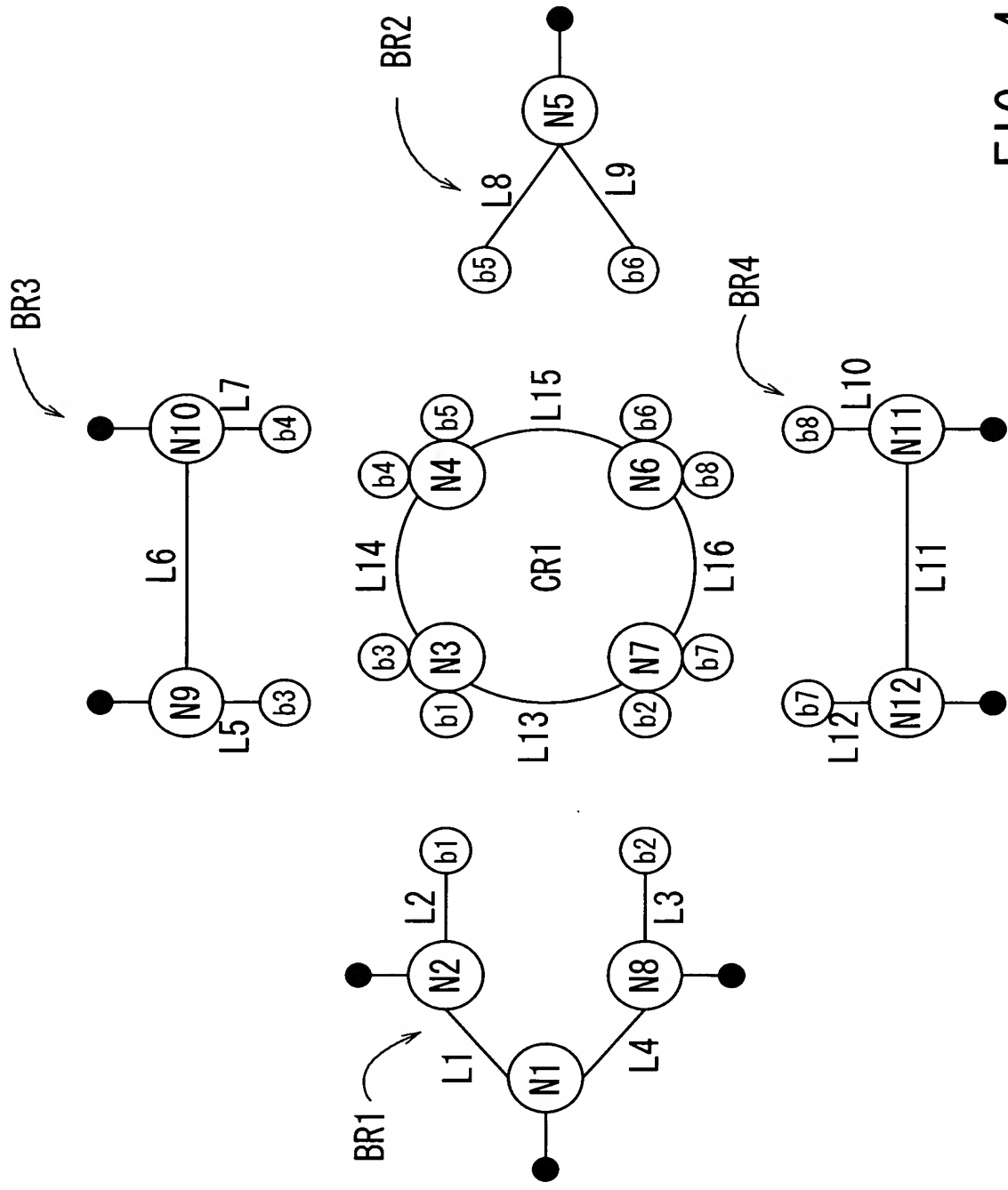


FIG. 4

T1 BRANCH INFORMATION TABLE

BRANCH NUMBER	BRANCH-STRUCTURE INFORMATION	CONNECTED-CORE- RING NUMBER	LINK BANDWIDTH	SNC BANDWIDTH
BR 1	b1, L2, N2, L1, N1, L4, N8, L3, b2	CR 1	1 5 0 M	1 . 5 M
BR 2	b5, L8, N5, L9, b6	CR 1	1 5 0 M	1 . 5 M
BR 3	b3, L5, N9, L6, N10, L7, b4	CR 1	1 5 0 M	1 . 5 M
BR 4	b8, L10, N11, L11, N12, L12, b7	CR 1	1 5 0 M	1 . 5 M

FIG. 5

T2 CORE INFORMATION TABLE

CORE-RING NUMBER	CORE-RING-STRUCTURE INFORMATION	LINK BANDWIDTH	SNC BANDWIDTH
C R 1	N3, L14, N4, L15, N6, L16, N7, L13	2. 4 G	1 5 0 M

FIG. 6


T3 CONNECTION INFORMATION TABLE

CORE-RING NUMBER	NODE NUMBER	BRANCH CONNECTION POINT	CONNECTED- LINK NUMBER	CONNECTED- BRANCH NUMBER
CR 1	N 3	b 1	L 2	BR 1
		b 3	L 5	BR 3
	N 4	b 4	L 7	BR 3
		b 5	L 8	BR 2
	N 6	b 6	L 9	BR 2
		b 8	L 10	BR 4
	N 7	b 7	L 12	BR 4
		b 2	L 3	BR 1

FIG. 7

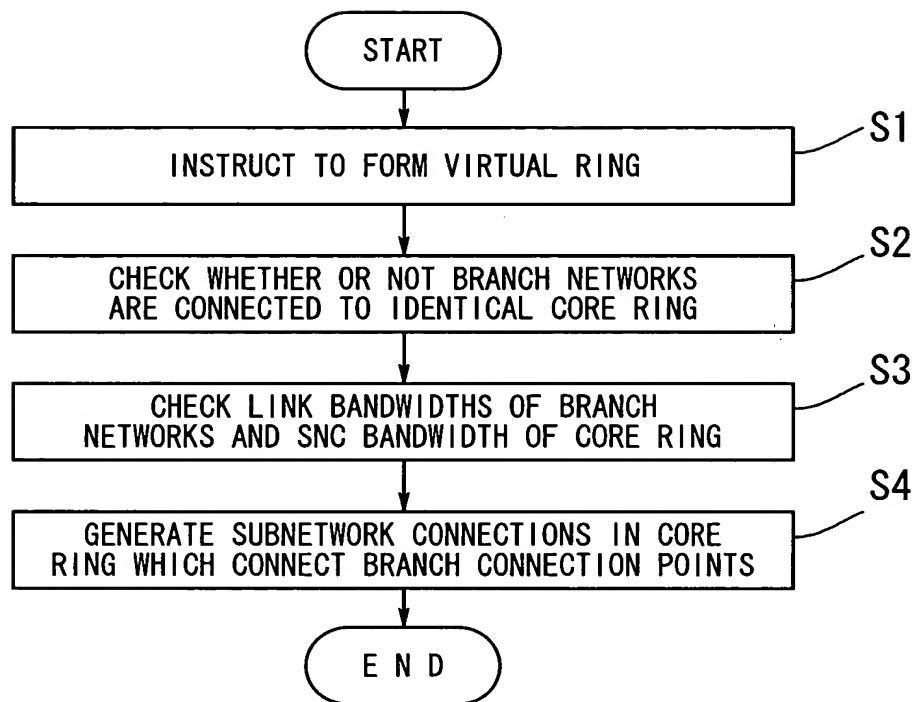


FIG. 8

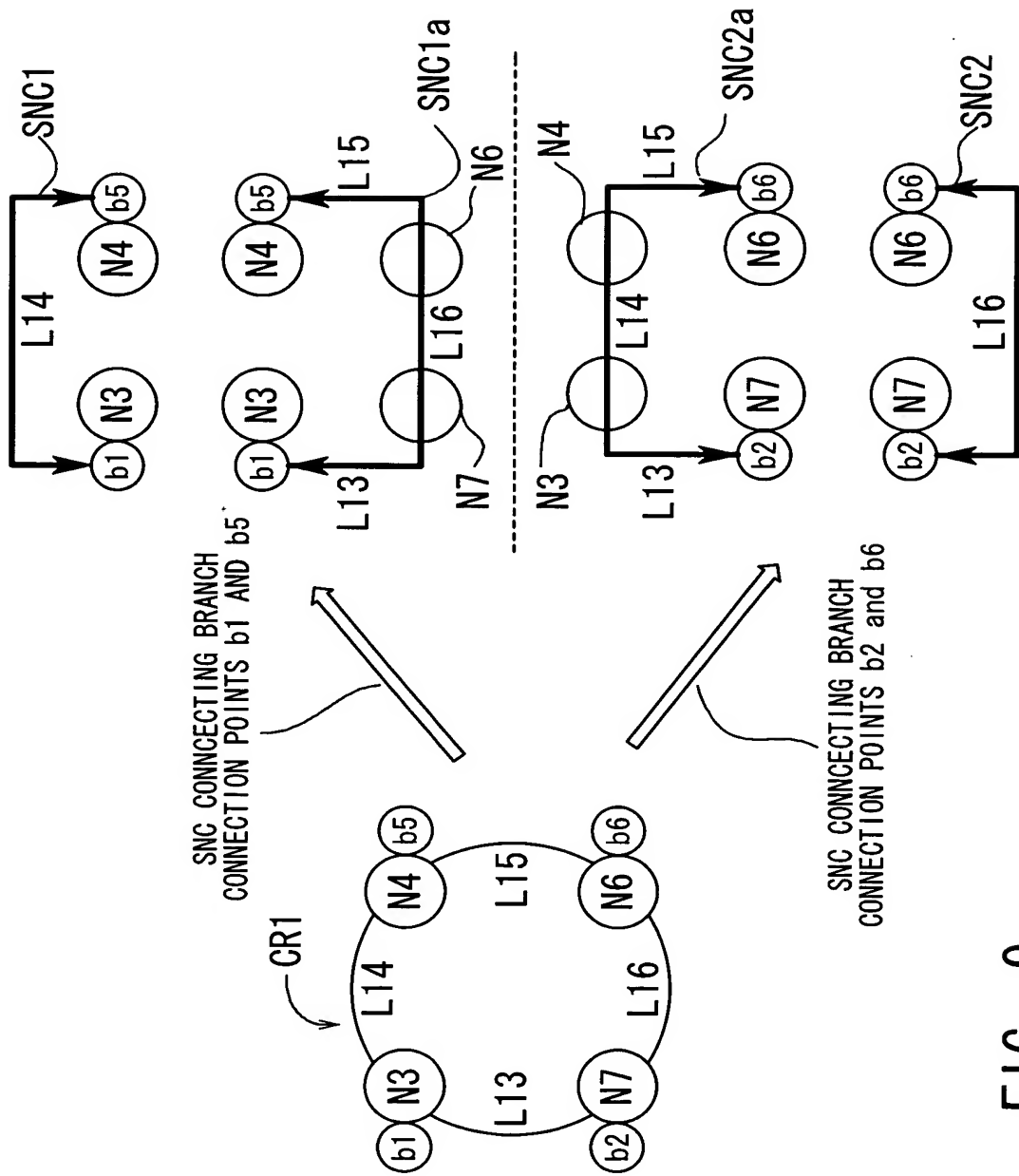


FIG. 9

WHEN SNCS PASS THROUGH IDENTICAL LINK L14, AND
LINK L14 FAILS, PROTECTION PATH P1a IS USELESS

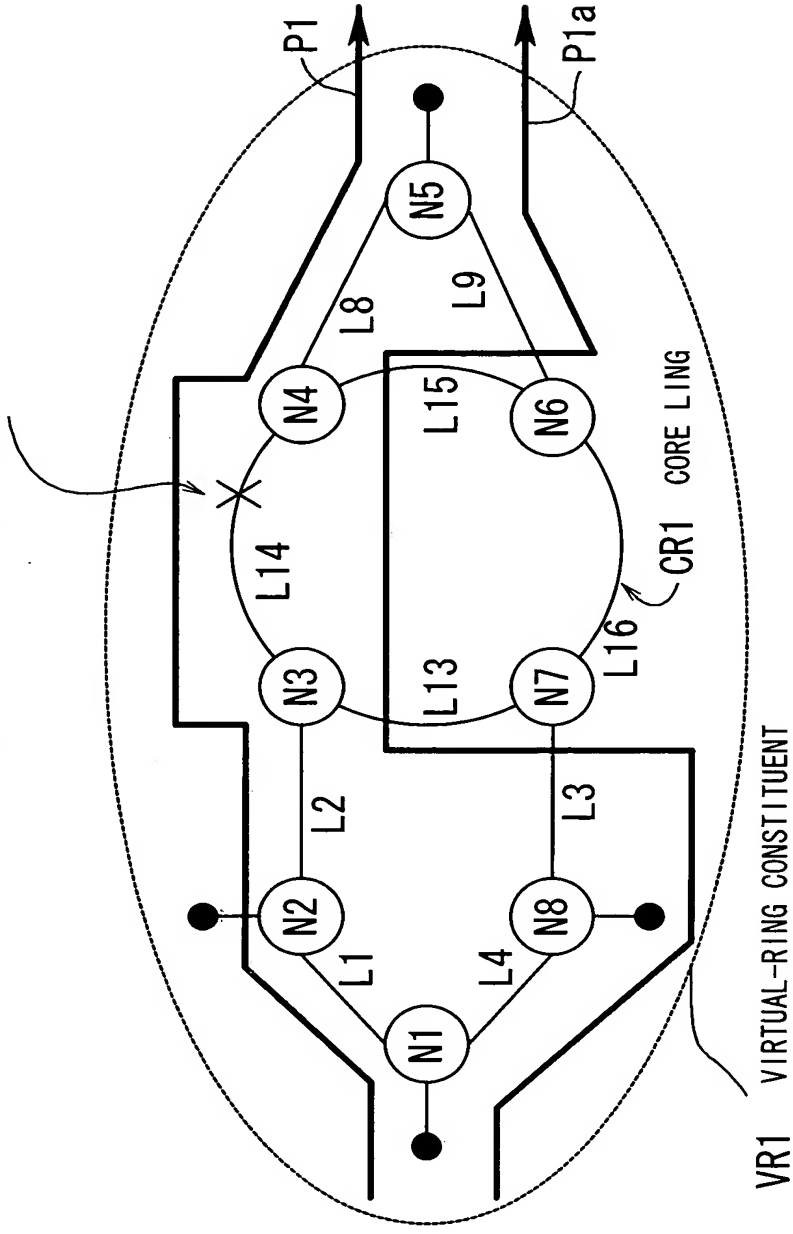



FIG. 10

T4 VIRTUAL-NETWORK INFORMATION TABLE



VIRTUAL-RING NUMBER	VIRTUAL-RING CONSTITUENT
VR 1	BR 1 , BR 2

FIG. 11

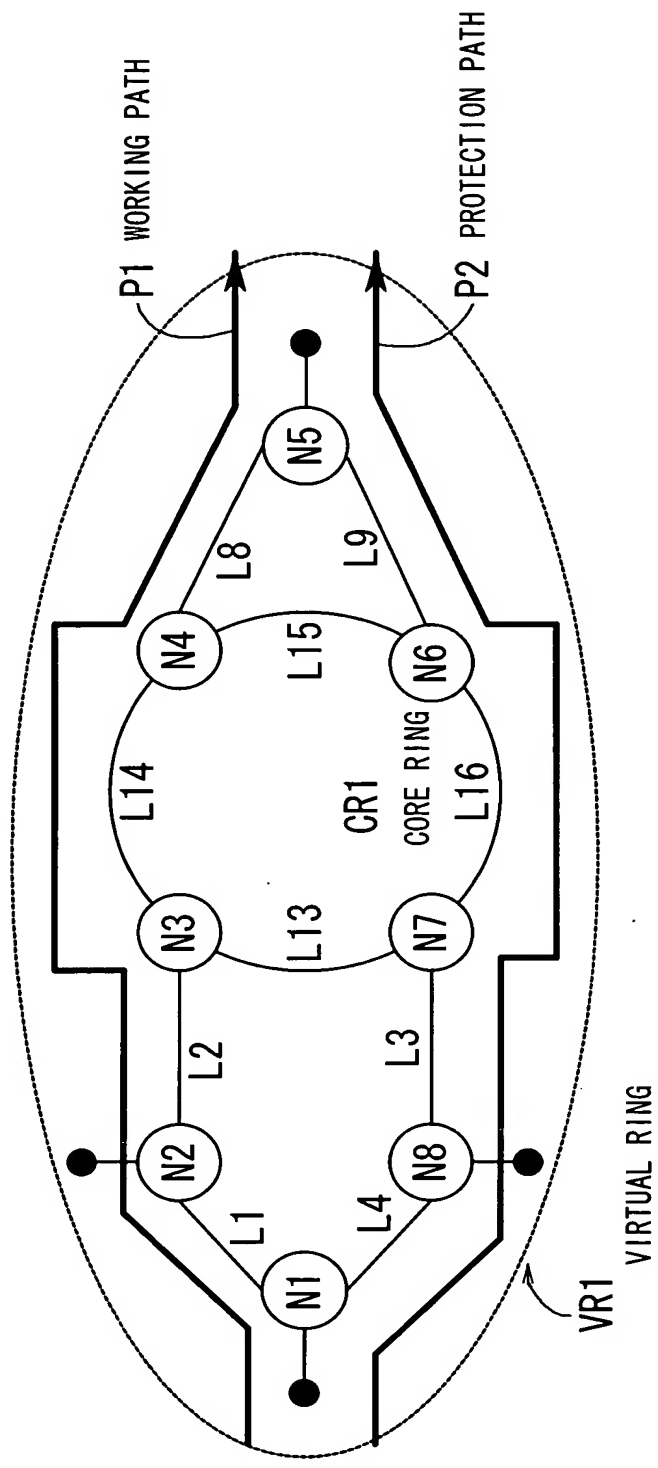


FIG. 12



T5 PROTECTION INFORMATION TABLE

LINK NUMBER	CHANNEL NUMBER	PROTECTION INFORMATION
L 1 4	c h 1	PROTECTED
	c h 2	PROTECTED
	c h 3	UNPROTECTED

FIG. 14

T6 PATH INFORMATION TABLE

PATH NUMBER	WORKING-PATH INFORMATION	PROTECTION-PATH INFORMATION	SELECTED SYSTEM
P 1	L 1, L 2, L 1 4, L 8		WORKING
P 2		L 4, L 3, L 1 6, L 9	PROTECTION

FIG. 15

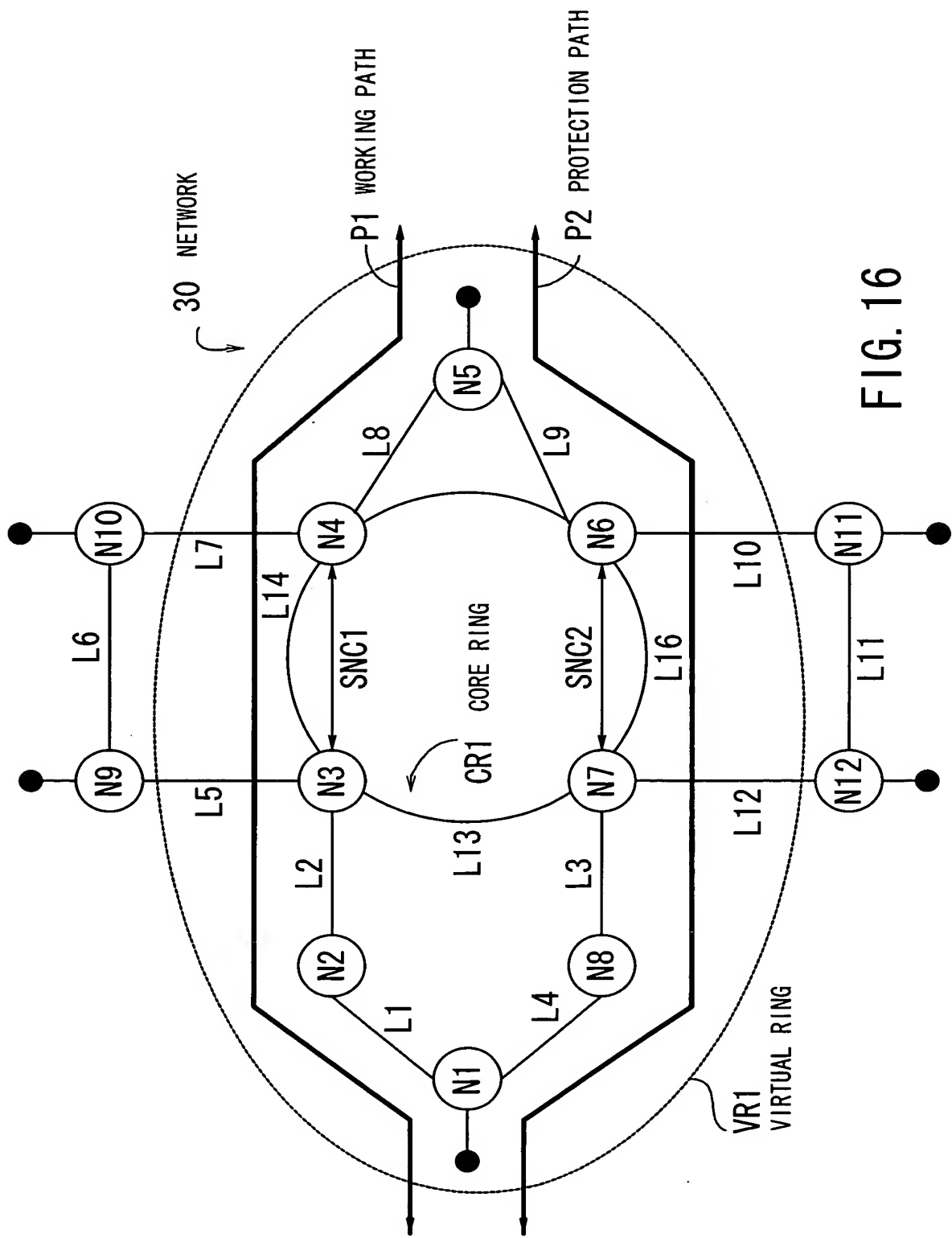


FIG. 16

T7 SNC INFORMATION TABLE

SNC NUMBER	STRUCTURE INFORMATION	VIRTUAL-LINE NUMBER
SNC 1	b1, N3, L14, N4, b5	VL 1

FIG. 17

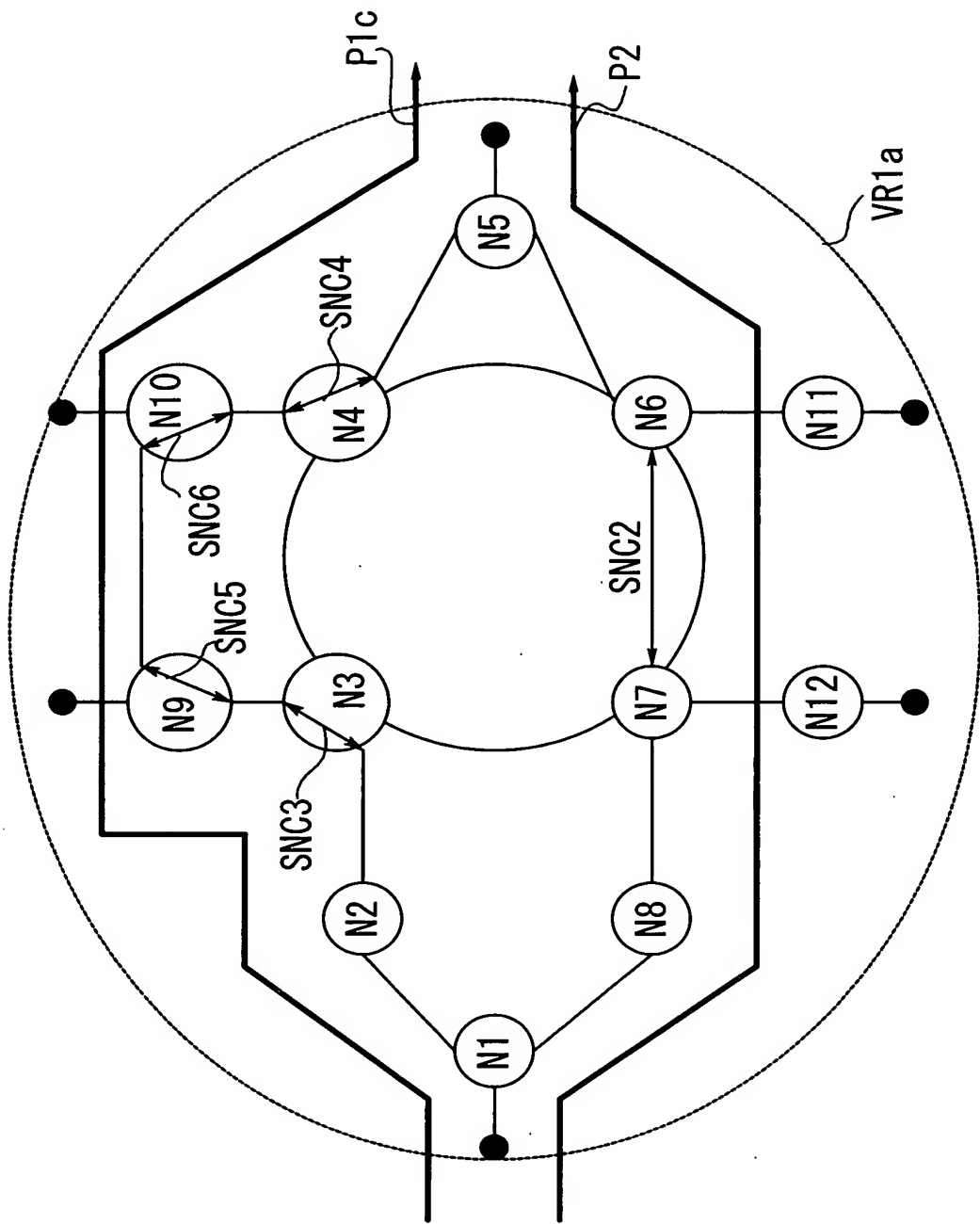


FIG. 18

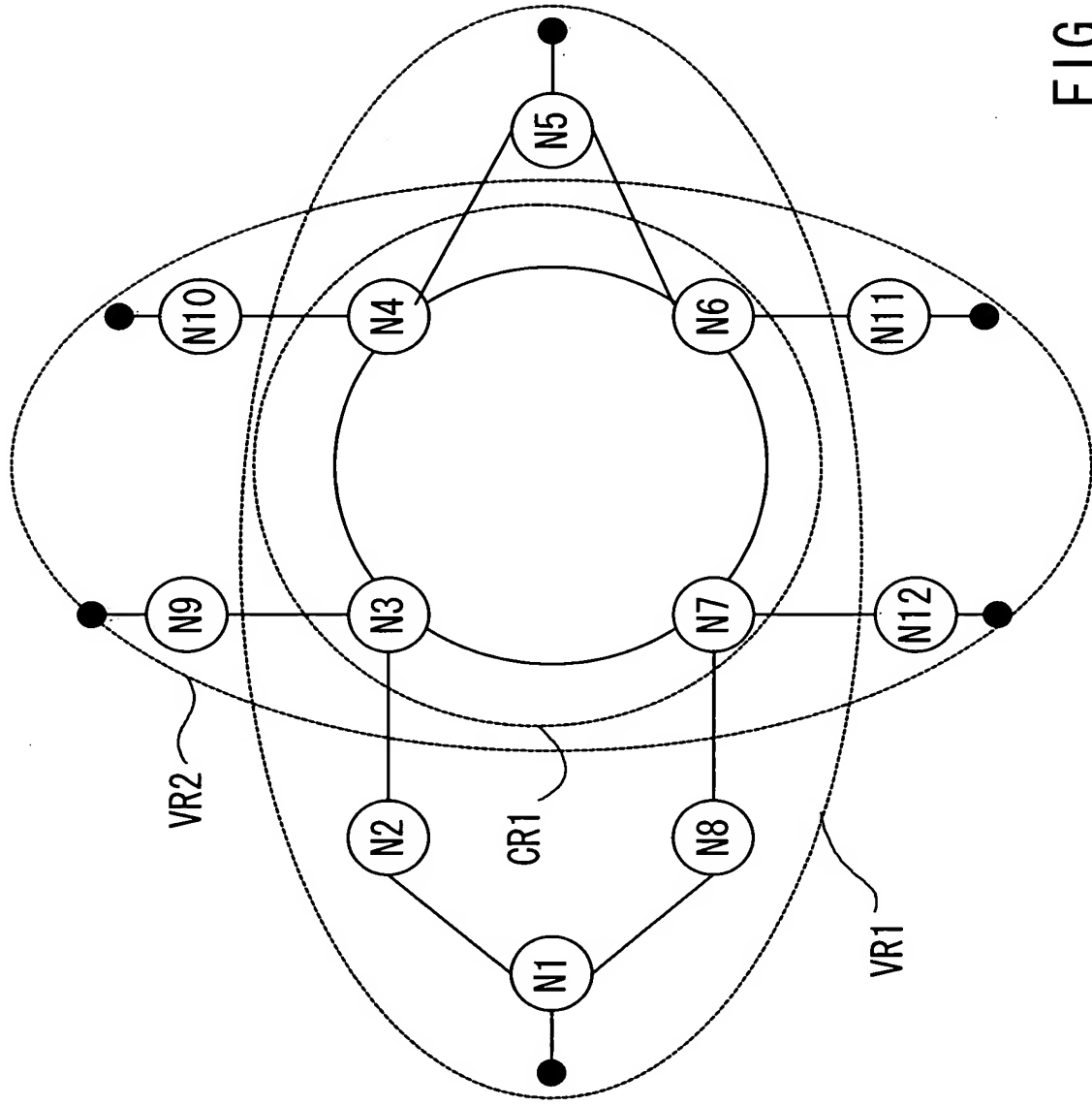


FIG. 19

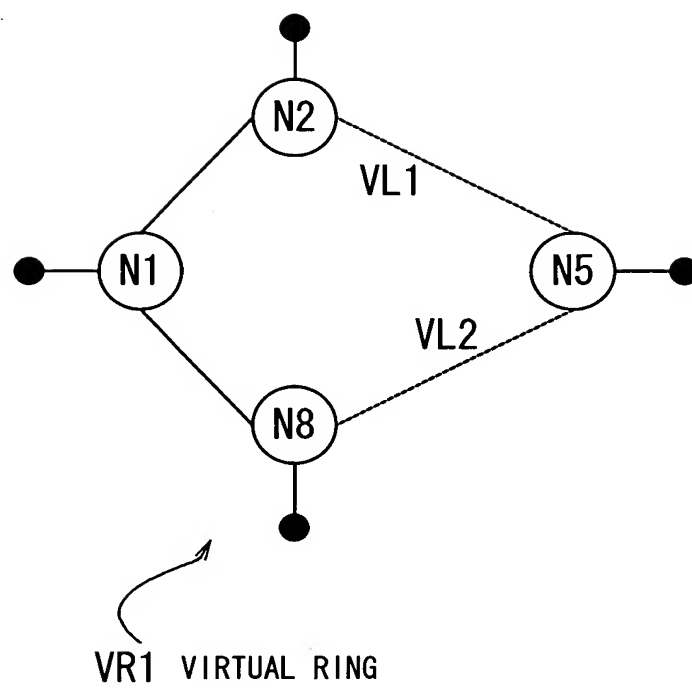


FIG. 20

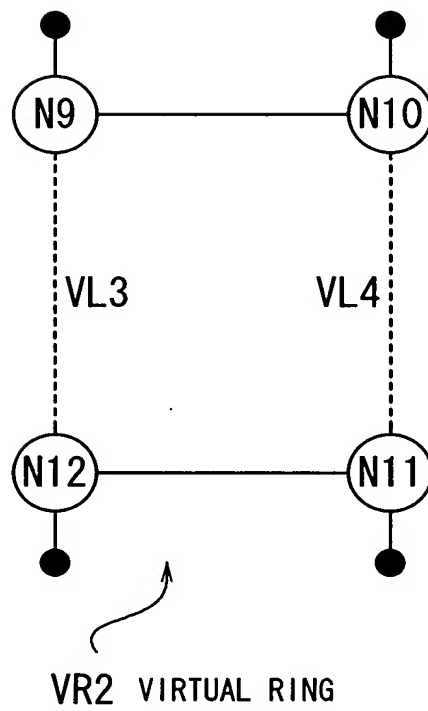



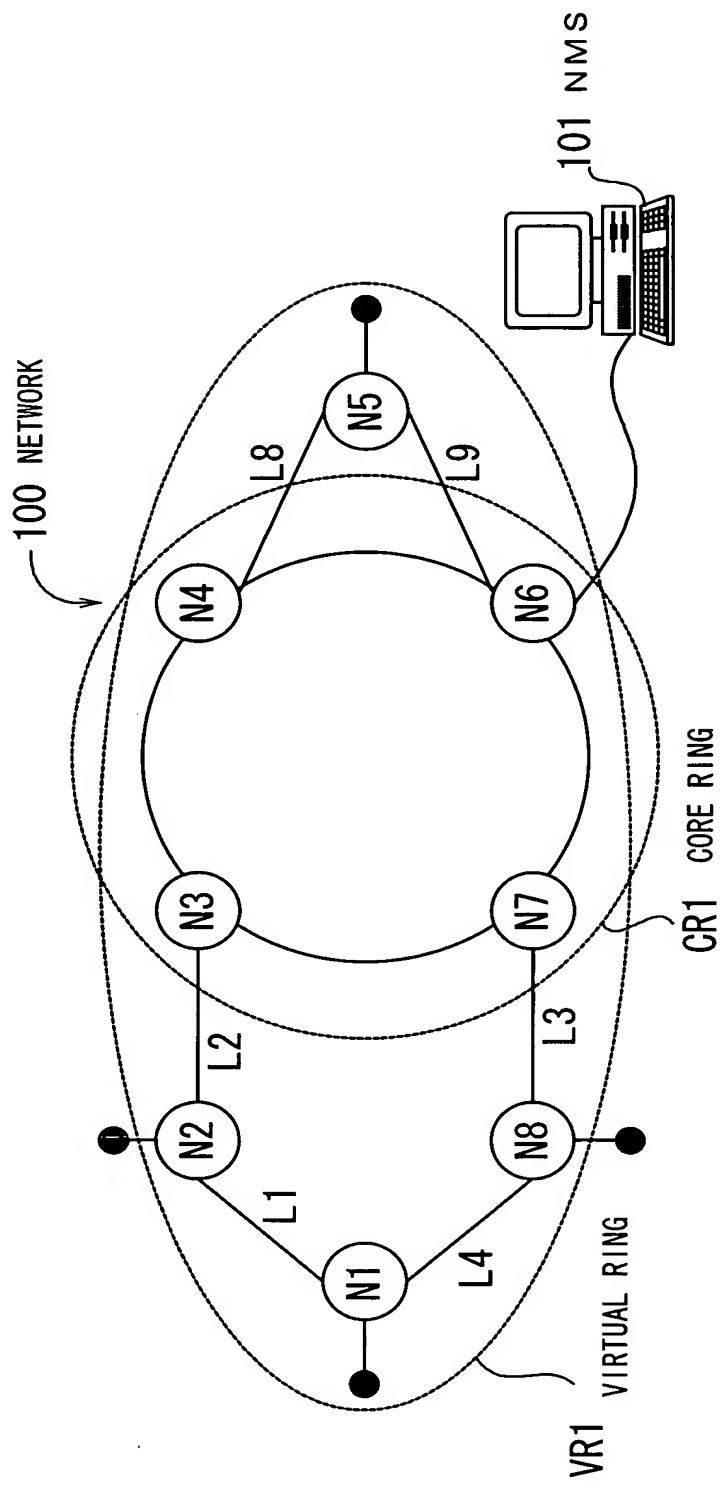
FIG. 21

T8 VIRTUAL-LINE INFORMATION TABLE



VIRTUAL-LINE NUMBER	STRUCTURE INFORMATION
V L 1	L2, SNC1, L8
V L 2	L3, SNC2, L9

FIG. 22



PRIOR ART
FIG. 23